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## CHAPTER REPORTS

### THE CHICAGO CHAPTER

The following lectures have been given before the Chicago Chapter during the past academic year:

December 11, 1912. Some Recent Additions to Our Knowledge of the Nature of the Atom.

By Prof. R. R. Millikan, University of Chicago.

January 7, 1913. The Discovery of Wild Wheat and Its Bearing on the Development of a Drought Resistant Race.

By Mr. Aaron Aaronsohn, Director of the Agricultural Experiment Station at Haifa, Palestine.

March 6, 1913. Evidences of Recent Progress in Engineering.

By Dean W. F. M. Goss, College of Engineering, University of Illinois.

May 22, 1913. Measurements of the Earth as a Whole.

By Prof. John F. Hayford, Director of the College of Engineering, Northwestern University.

Members elected to the Chicago Chapter during 1912-1913. Autumn Quarter (1912) A; Winter (1913) W; Spring (1913) S. The titles following the names are those of the research which was part of the basis for election. These theses are not necessarily completed, though in some instances they are, but in all cases the work is sufficiently well advanced to assure successful completion. They all represent work offered for higher degrees except in the case of faculty members. The degree sought except in one case is the Ph. D.; the one exception is a Master. In each case the department in which the work is being carried out is stated:

William Lewis Eikenberry, Botany, W. Elected from Faculty. The Forests of Ogle County Illinois.

Except for this one Faculty Member all of the new members were graduate students at the time of election.

Hannah Aase, Botany, W. Anatomy of the Sporophylls of *Araucaria* and *Agathis*.

Aaron Arkin, Pathology, W. Influences of Chemical Substances Upon Immune Reactions With Special Reference to Oxydation.

Frank Kaiser Bartlett, Pathology, W. Acromegaly With Polyglandular Syndrome.

- Will Lee Brown, Zoology, A. Studies of Certain Changes in the Mammalian Ovary.
- George Smith Bryan, Botany, A. Life History of Sphagnum.
- Clyde Coleman, Chemistry, W. Constitution of Two Penta-acetyl-d-glucoses.
- Hermann Deutsch, Botany, W. Study of Targionia Hypophyllis.
- Ellsworth Eugene Faris, Psychology, W. A study in the Psychology of Punishment, Genetic and Racial.
- Arthur Earle Fath, Geology, W. Studies in Connection with the Geological Survey.
- Curvin Henry Ginrich, Astronomy, W. Determination of Photographic Magnitudes of Comparison Stars in Certain of the Hagen Fields.
- William Herman Haas, Geology and Geography, W. Geology and Geography of the Mesa Verde Region.
- Frank Alfred Herald, Geology, W. The Williston Lignite Fields Williams Co. N. Dakota.
- Oscar Fred Hedenburg, Chemistry, W. Lactones of mannonic and gluconic acids.
- Libbie Henrietta Hyman, Zoology, A. Regulation and Pure Line Studies in Naids.
- Edward Safford Jones, Psychology, W. Effect of Bodily Attitudes on Mental Processes.
- William Henry Kuh, Chemistry, A. Dissociation of Methyl and Ethyl Imidobenzoate Hydrochlorides in Aqueous Solution.
- Edwin Daniel Leman, Chemistry, A. Chemical Properties and Relative Activities of Actinium and its Products.
- John Wood Mac Arthur, Zoology, W. Investigation of Certain Problems in Pure Line Cultures of Chadocera.
- Martha MacDonald, Mathematics, W. On Forms of Nodal Curves of Vibrating Membranes.
- Arthur Wesley Martin, Chemistry, S. Studies of solutions in Anhydrous Formic Acid.
- Ralph Garfield Mills, Bacteriology, A. A Comparative Study of the Bactriology of the Feces of Persons on a Continuously Low Protein Diet.
- Wilson Lee Miser, Mathematics and Astronomy, W. Linear Homogeneous Equations With Double Periodic Meromorphic Coefficients.
- Adelbert M. Moody, Pathology, S. Work on Lange's Colloidal Gold Reaction for Cerebro Spinal Syphilis.
- Lulu Newlon, Botany, A. Some Problems in Plant Distributions.

- Harold William Nichols, Physics, A. Production of the Line Spectrum of Nitrogen.
- Roberts Owen, Psychology, A. Criteria of Recognition.
- Harry Morrill Paine, Chemistry, W. The Effect of Salts on the Solubility of extremely soluble salts.
- Emerson Mears Parks, Geology, W. Studies in Connection with the Geological Survey.
- Benjamin Floyd Pittinger, Psychology, W. Distribution of Effort in Learning.
- Almon Ernest Parkins, Geography, S. A Comparison of Trans-Appalachian Railways.
- Dean Humboldt Rose, Botany, S. Relation of Fungi to Discoloration and Germination of Alfalfa Seed.
- Joseph James Runner, Geology, W. Special Studies in Structural Geology.
- Ida Mary Schottenfels, Mathematics, W. Papers in Structural Geology.
- Hope Sherman, Botany and Pathology, A. The Behavior of the Tubercle Bacillus Toward Fat Dyes.
- Eva Ormento Schley, Botany, A. Physical and Chemical Changes Following Geotropic Stimulus.
- Eugene Austin Stephenson, Geology, W. Alteration of Feldspars.
- Morris Miller Wells, Zoology, A. Experimental Studies on the Reaction and Resistance of Fishes to Gases in Solution in Water.
- Stanley Davis Wilson, Chemistry, W. Studies on the Hydrolysis of Esters.

On May 22, 1913, the Chapter elected its officers for the years 1913-1915, and the names are given in the list on page 112. The Chapter also chose an Electoral Board: J. M. Coulter, H. N. McCoy, P. Kyes, H. H. Newman, G. A. Bliss.

H. I. SCHLESINGER,  
*Recording Secretary.*

#### THE MINNESOTA CHAPTER

During the year 1912-13 the chapter held three scientific meetings, at which papers were read as follows: November 25, 1912, The Enrichment of Sulphide Ores, by W. H. Emmons, head of the department of geology; The Scattering of Cathode Rays, by L. W. McKeehan of the department of physics, January 20, 1913, Development of Lymphocytes in Lymph Nodes and Spleen, by Hal Dow-

ney of the department of animal biology; Good and Bad Clays, by F. F. Grout of the department of geology. April 24, 1913, open meeting lecture by Professor C. J. Keyser of Columbia University, Concerning the Figure and the Dimensions of the Universe of Space.

The regular annual meeting of the chapter was held May 22, 1913, and the following were elected members of the Sigma Xi; the subject of the most important research follows in each case:

From the faculty:

W. P. Larson, Instructor in Pathology, Infectious Abortion in Cattle.

E. P. Burch, Lecturer on Electric Railway Engineering, Electric Traction for Railway Trains.

Graduate students (including two fifth-year students in the School of Chemistry, holding the degree of B.S., but not technically graduate students):

Grover Conzet, A Qualitative and Quantitative Study of Seed Production and Reproduction of the Norway Pine, *Pinus resinosa*.

Elmer A. Daniels, The Action of Anhydrous Aluminum Chloride on the Ethers.

Junius D. Edwards, Quarternary Ammonia Compounds.

Milton M. Goldstein, The Action of Chloroform on Potassium Phenolate.

H. V. Harlan, Morphological and Physiological Distinctions in Our Cultivated Barleys.

Harry D. Kitson, Three Psycho-Physical Tests for Measuring the Effect of Ventilation on the Work of School Children.

Paul E. Klopsteg, The Measurement of Magnetic Fields by Means of a Damped Cell.

Wolf Kritchewsky, *Récherches sur la Thioxenine*, and investigations on catalysis.

Adolph Ringoenk, The Origin and Structure of the Mast Cells of the Adult Rabbit.

Charlotte Waugh, Minnesota Galls.

Roger Wilson, Reducation of Mercuric Chloride by Phosphorus Acid and the Law of Mass Action.

FRED K. BUTTERS,  
*Corresponding Secretary.*

#### THE WORCESTER CHAPTER

During the year 1912-1913 four meetings were held. The speakers at the first three meetings were chapter members, and at

the annual meeting in June an address was given by Mr. L. A. Hawkins, of the Research Laboratory of the General Electric Company on The Development of the Tungsten Lamp.

The following were elected to membership on April 23, 1913:  
George Nelson Bailey, A. B., graduate student.

Squirrel-cage Induction Generator. Comparison of the Relative Adaptability of the Synchronous Alternator and an A-synchronous Induction Generator to Hydro-Electric Generation of Electric Power.

Charles Perry Ball, Jr., undergraduate.

Mechanical Engineering.

Clarence Arizona Brock, undergraduate.

Mechanical Engineering.

Peter William Brouwers, undergraduate.

Civil Engineering.

Albert Lewis Brown, undergraduate.

Chemistry.

Edmund Karl Brown, undergraduate.

Mechanical Engineering.

John Nichols Donovan, undergraduate.

Civil Engineering.

George Cooley Graham, undergraduate.

Electrical Engineering.

George Albert Hill, undergraduate.

Chemistry.

Winthrop Marsden Jones, undergraduate.

Mechanical Engineering.

Harry Bernard Lindsay, undergraduate.

Electrical Engineering.

Albert Joseph Lorion, undergraduate.

Civil Engineering.

Cleon Edgar Phelps, undergraduate.

Mechanical Engineering.

Donald May Russell, undergraduate.

Electrical Engineering.

Hugo Fred Schmidt, undergraduate.

Chemistry.

Millard Cole Spencer, undergraduate.

Electrical Engineering.

At the annual meeting, June 10, 1913, the officers for 1913-1914 were elected.

HOWARD C. IVES, *Corresponding Secretary.*

## THE IOWA CHAPTER

The activities of the Iowa Chapter may be generally classified under two heads: The closed meetings, which are devoted to business and to informal presentation and discussion of investigations being carried on by the members, and the open meetings, when some notable public address is given under the auspices of the Society. The closed meetings consist of four regular soirées and other especially called business meetings. During the last year only reports of original work were accepted. Each of these was limited to 12 minutes for presentation. The discussion, however, was unlimited.

The following is a list of the subjects and their authors for the past year:

Geology of Lucas County, as studied in railroad cuts, for the Pleistocene period, by G. F. Kay.

A demonstration of a new adaptation of the Rayleigh disc for measuring sound intensity, by G. W. Stewart.

Histogenesis of the cranial sympathetic ganglia, by A. Kuntz.

The explanation of the heart positions during embryo development, by H. J. Prentiss.

The flora of two limited prairie tracts; one natural and one artificial, by B. Shimek.

Dicliny in *Iva xanthifolia*, C. H. Farr.

The Devonian Age in Iowa as revealed by a study of the geology of Floyd county, by A. O. Thomas.

New studies on the pollination of *Vallisneria spiralis*, by R. B. Wylie.

The development of the cockle burr, by C. H. Farr.

The muscular control of the lower jaw, by H. J. Prentiss.

The elastic properties of copper and iron wires, by H. L. Dodge.

The interaction of the peptonizing agents found in the intestinal tract, by E. W. Rockwood.

The action of mercury vapor on selenium, by F. C. Brown.

A study of the vibration galvanometer, by C. W. Hazelett.

A study of the human embryo, by H. J. Prentiss and J. J. Lambert.

Lamp spacing and power in relation to efficient sign lighting, by J. H. Edwards.

Evaporation in relation to plant life, by L. A. Giddings.

The genuineness of high photo-electric potentials, by F. R. York.

The open meetings last year were about as they have been for years: The presidential address by the retiring president of the Chapter and a special formal address by some noted scholar invited from outside the Chapter. In October, 1912, the presidential address was given by Dean W. G. Raymond on Three Problems of the Municipal Engineer in a Large City. The address for 1913 was given by Dean C. E. Seashore on The Measurement of Individual Mental Traits, with special reference to Musical Capabilities. The latter represented a popular resumé of the investigations by Professor Seashore and his co-workers.

The annual lecture and the initiation of new members is the formal event of the year. A six o'clock dinner is followed by the initiation of new members and later by the public lecture of the evening.

The annual lecturer is one who is generally recognized to be a leader in some line of scholarship, and who has achieved such success that he can put his work before the public in simple language. Last year the public lecture was given by Professor Keyser of Columbia University on The Figure and the Dimensions of the Universe of Space.

The elections during the year include the following persons:  
Fred C. Bruene, graduate student.

The Role of Wave Phase in the Intensity Theory of the Localization of Sound.

Morris M. Leighton, graduate student.

The Pleistocene History of the Iowa River.

C. W. Hazelett, graduate student.

The Study of the Vibration Galvanometer, and Its Application to the Measurement of Currents in the Telephone Receiver.  
Stuart St. Clair, graduate student.

Ore Deposits Produced by Magmatic Segregation.

Katherine L. Stewart, graduate student.

The Asters and Their Relatives.

F. R. York, graduate student.

The Genuineness of the High Photo-Elective Potentials.

M. F. Clements, C.E., '99, alumni member.

Designed Duluth Ore-Locks.

James E. Gow, B.Ph., '01, alumni member.

Professor of Botany, Coe College. Papers on Botany of Adair Co., Iowa. Morphology and Embryology of Aroids.

Maro Johnson, C.E., '98, alumni member.

Engineer of bridges and buildings of the Illinois Central R. R.  
and the Yazoo and Mississippi R. R.

Howard N. North, C.E., '95, alumni member.

Assistant to Chief Engineer of the Oregon Short Line.

The following new members were initiated April 30, 1913,  
from the Senior class:

Abba E. Baum, Geology	Asle H. Hanson, Engineering
Benjamin Boer, Engineering	George J. Kellar, Engineering
Alice E. Brooks, Geology	Florence E. Meadows, Botany
Walter H. Cabin, Engineering	Lydia I. Osher, Mathematics
John H. Edwards, Engineering	R. H. Lott, Medicine
Charles W. Gallaher, Mathematics	Charles I. Preston, Engineering
W. J. Garretson, Medicine	Minnie E. Stutz, Mathematics
Elvin E. Gray, Physics	

F. C. BROWN,  
*Recording Secretary.*

### THE YALE CHAPTER

The activities of the Yale Chapter are confined chiefly to the giving of elections and to the holding of a series of meetings throughout the year. Elections are given to members of the faculty and graduate students on the basis of the excellence of original work done or in progress. Undergraduates in the Forestry School, Medical School, Sheffield Scientific School and Yale College are given elections on the basis of their promise of success in scientific lines.

The following elections were given during the year 1912-1913. After the names of those elected from the faculty and graduate students is given the list of publications or investigations. From the Forestry and Medical schools those elected were chosen for excellence and promise in the work of the regular courses. After the names of those elected from the Scientific School and Yale College is given the subject in which their major work has been done.

#### FROM FACULTY AND GRADUATE STUDENTS:

Walter A. Bell, B. S. Queens Coll., Kingston, Ont.

Joggins' Carboniferous Section of Nova Scotia. Sum. Rep.  
Geol. Survey, Canada, 1912.

Robert Bengis, Ph.B., Yale, 1910.

Pyrrole Compounds from Imido Acids. Jour. Am. Chem.  
Soc., vol. 32.

Synthesis of the Hydantoin of 3-Aminotyrosine. Jour. Am.  
Chem. Soc., vol. 34.

- Synthesis of 3-Bromotyrosine. Jour. Am. Chem. Soc., vol. 34.  
 Lewis H. Chernoff, Ph.B., Yale, 1911.  
 Benzoylphenylacetamide. Jour. Am. Chem. Soc., vol. 32.  
 The Action of Alcoholates and Amines on Benzoylisocyan-  
 chloride. Jour. Am. Chem. Soc., vol. 34.  
 Synthesis of 5-Thiohydantoin. Jour. Am. Chem. Soc., vol. 34.  
 Ernest Woodward Dean, B. A. Clark University 1908. M. A. Yale  
 1912.  
 On the Hydrolysis of Esters of Substituted Aliphatic Acids.  
 Am. Jour. Sci., Sept. 1912, with W. A. Drushel.  
 David Upton Hill, B. A., Univ. New Brunswick '08, M. A. Yale  
 1911.  
 Article in press on The Purification of the Barium Sulphate  
 Precipitated in Analysis.  
 Arthur William Lauer, Ph.B. Univ. of Iowa 1904.  
 George Augustus Linhart, B. S. Univ. of Penn. '09, M. A. Yale '11.  
 The Hydrolysis of Metallic Alkyl Sulphates, with W. A.  
 Drushell. Am. Jour. Sci., July, 1911.  
 On the Hydrolysis of Metallic Alkyl Sulphates. Am. Jour.  
 Sci., Sept., 1912.

## FROM THE FORESTRY SCHOOL

- Clarence Russell Anderson, B. S., Dickinson Coll., '08.  
 Benjamin Kimball Ayers, B. S. Dartmouth, '11.

## FROM THE MEDICAL SCHOOL

- Delos Judson Bristol, Jr., Ph. B. Yale '09.  
 Donald Gardner Russell, Ph. B., Yale '09.  
 Paul Galpin Shipley.

## FROM THE SHEFFIELD SCIENTIFIC SCHOOL

- |                          |                        |
|--------------------------|------------------------|
| George Vanderbilt Caesar | Chemistry              |
| A. M. Chickering         | Zoology and Botany     |
| Frank Baldwin Doolittle  | Civil Engineering      |
| Sidney Edward Hadley     | Chemistry              |
| Richard P. Hart          | Electrical Engineering |
| Earle Heaton Hemingway   | Chemistry              |
| Kenneth Fletcher Lees    | Mechanical Engineering |
| Eugene Edward Oviatt     | Civil Engineering      |
| Givens Archer Parr       | Mining Engineering     |
| Arthur Phillips          | Chemistry              |

Austin Bryant Reeve	Mechanical Engineering
Walter Charles Schmidt	Mining Engineering
Philip William Swain	Mechanical Engineering
Rudolph Harold Willard	Electrical Engineering

## FROM YALE COLLEGE

Clarence Emir Allen, Jr.	Geology
Harry Berman	Physiology and Biology
Lorenzo Bull	Physics and Chemistry
Lawrence Curtiss	Biology and Chemistry
Ralph H. Gabriel	Geology
Edward S. Hammond	Mathematics and Physics
Edmund S. Hawley	Chemistry and Biology
William Watson House	Physics and Chemistry
Bernard Emerson Leete	Biology
John Wentworth Luce	Mathematics and Physics
Lovell Waldo Mason	Chemistry
Murray Rushmore	Geology
Philip Gray Russell	Geology
John R. Tuttle	Mathematics and Physics

The following meetings were held during the year by the Chapter only:

Election of New Members—Feb. 5, 1913

Initiation and Banquet—Feb. 22, 1913

Business Meeting—June 4, 1913

Public meetings and lectures given under the auspices of the Yale Chapter:

Nov. 26, 1912—Prof. Hugo de Vries, of the University of Amsterdam. Some Experiments in Biology.

Jan. 17, 1913—Prof. A. L. Dean. The Inventor and the Patent Law.

Mar. 14, 1913—Dr. Joseph Marshall Flint. A Medical Journey to the Orient.

Apr. 2, 1913—Prof. Charles Felton Scott. Engineering in Modern Life.

Apr. 16, 1913—Professor DuBois. The Story of a Lighthouse.

May 7, 1913—Professor McClelland. Some Methods of Prospecting.

The life of the Chapter is vigorous and its influence in the University is steadily increasing.

JOSEPH W. ROE,  
*Corresponding Secretary.*